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Peter William Atkins FRSC (born 10 August 1940) is an English chemist and a Fellow of Lincoln College at the University of Oxford. He retired in 2007. He is a prolific writer of popular chemistry textbooks, including Physical Chemistry, Inorganic Chemistry, and Molecular Quantum Mechanics.

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Matrices in quantum mechanics As we have seen, the fundamental commutation relation of quantum mechanics, $[x, p_x] = \frac{1}{i} \hbar$, implies that x and p_x are to be treated as operators. However, there is an alternative interpretation: that x and p_x should be represented by matrices, for matrix multiplication is also non-commutative.

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